

# Security Issues

- Important in Grids because they are *federated*, i.e., no single entity controls the entire infrastructure
- **Single sign-on**: collective job set should require once-only user authentication
- **Mapping to local security mechanisms**: some sites use Kerberos, others using Unix
- **Delegation**: credentials to access resources inherited by subcomputations, e.g., job 0 to job 1
- **Community authorization**: e.g., third-party authentication
  
- These are also important in clouds, but less so because clouds are typically run under a central control
- In clouds the focus is on failures, scale, on-demand nature